Amendments to the Claims:

Please amend claim 5 as follows. This listing of claims will replace all prior versions, and listings, of claims in the application.

- (original) A method of segmenting a three-dimensional structure from a threedimensional, and in particular medical, data set while making allowance for user corrections, having the following steps:
- a) provision of a three-dimensional deformable model (M) whose surface is formed by a network of mashes that connect nodes at the surface of the model.
- positioning of the model (M) at a point in a three-dimensional data set at which the structure (6) to be segmented is situated.
 - manual displacement of nodes,
- re-calculation of the nodes of the model (M) in weighted consideration of the nodes that have been displaced manually.
- coriginal) A method as claimed in claim 1, wherein step d) comprises the following steps:

determination of a candidate point for each sub-surface defined by mashes of the model, each candidate point being situated on a normal to the sub-surface,

assignment of a weighting factor to each node that has been displaced, the weighting factor being larger the smaller distance between the displaced node and a boundary surface of the structure to be segmented,

re-calculation of the nodes of the model while allowing for the candidate points determined, the displaced nodes, and the weighting factors assigned.

3. (original) A method as claimed in claim 1, characterized in that step d) the nodes

are re-calculated by minimizing a weighted sum of external energy, internal energy and an energy that takes into account the manually displaced nodes.

 (original) An image-processing arrangement for performing the method claimed in claim 1, comprising:

a memory unit for storing a deformable model whose surface is formed by a network of mashes that connect the nodes at the surface of the model, and for storing a three-dimensional data set and in particular a medical data set,

an image-reproduction unit for reproducing a structure to be segmented and the deformable model.

a calculating unit for re-calculating the nodes of the model in weighted consideration of nodes which have been displaced manually,

a positioning unit for positioning the model at the point in the three-dimensional data set at which the structure to be segmented is situated,

a control unit for controlling the memory unit, the image-reproduction unit, the calculating unit and the positioning unit to perform the following steps:

- a) provision of a three-dimensional deformable model (M) whose surface is formed
 by a network of mashes that connect nodes at the surface of the model,
- b) positioning of the model (M) at a point in a three-dimensional data set at which the structure (6) to be segmented is situated,
 - c) manual displacement of nodes,
- d) re-calculation of the nodes of the model (M) in weighted consideration of the nodes that have been displaced manually.

- 5. (currently amended) A computer program for a control unit for controlling a memory unit, an image-reproduction unit, a calculating unit and a positioning unit of an image-processing arrangement, wherein the program is embedded in a computer-readable medium, for performing the method controlling the image-processing arrangement as claimed in Claim ± 4 according to the following steps:
- a) provision of a three-dimensional deformable model (M) whose surface is formed by a network of mashes that connect nodes at the surface of the model,
- b) positioning of the model (M) at a point in a three-dimensional data set at which the structure (6) to be segmented is situated,
 - c) manual displacement of nodes,
- d) re-calculation of the nodes of the model (M) in weighted consideration of the nodes that have been displaced manually.